

중 레 : 60 mmHg

: , , 43 .

: 3

exanthem :

1 11.1 g/dl, 33%,

hydroxyzine(ucerax®) 12.5 mg 14 27,000/mm³, 10,310/mm³ .

Na⁺ 134mEq/L, K⁺ 3.8 mEq/L, Cl⁻ 104 mEq/L, Ca⁺⁺ 2.6 mg/dl, Mg⁺⁺ 0.68 mg/dl

: 7 B 158 mg/dl, 6.9 g/dl, 2.7 g/dl,

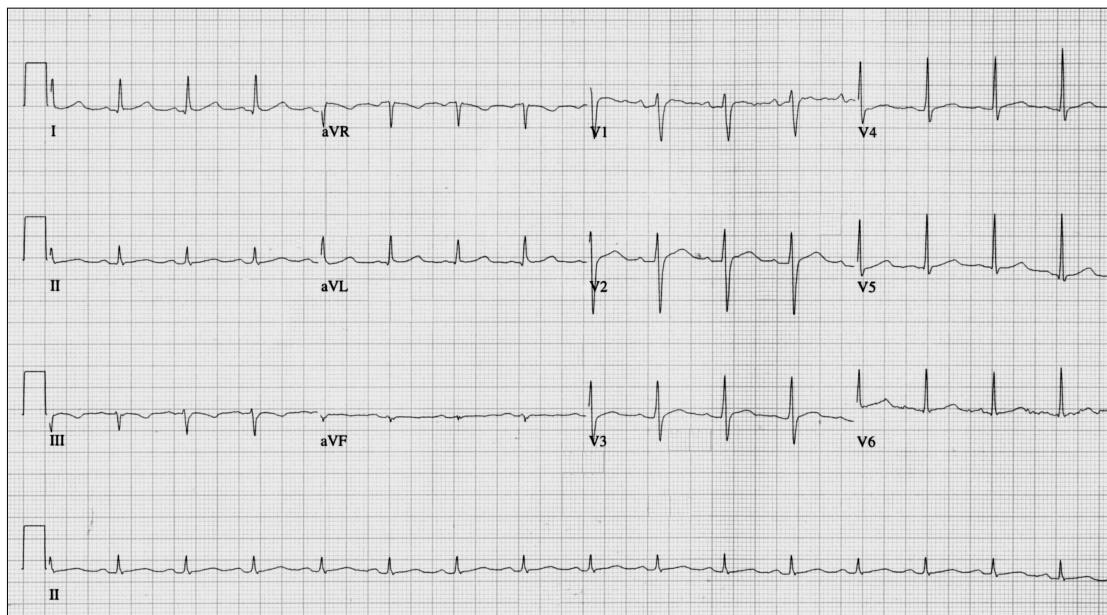


Fig. 1. EKG taken on the day of admission. QTc interval is 443 msec.

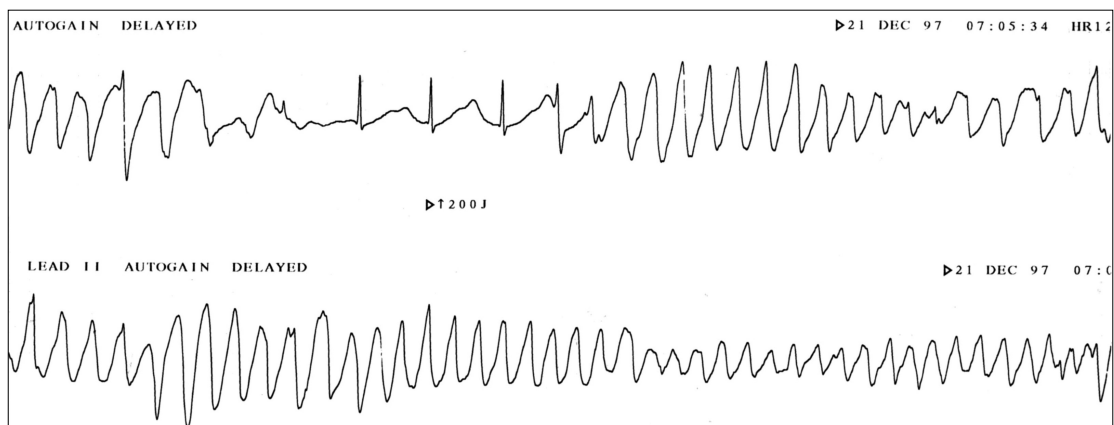


Fig. 2. EKG during syncopal attack shows polymorphic ventricular tachycardia.

13.9 mg/dl, AST 65 IU/L, ALT 26 IU/L, :
 alkaline phosphatase 65IU/L, NH₃ 149 µg/dl, QTc 443 msec (Fig.
 cardiac troponin T . Proth - 1). isoelectric
 rombin time 22%, INR 3.34 . line QRS complex가 (twist)
 : (Fig. 2) ,
 QT

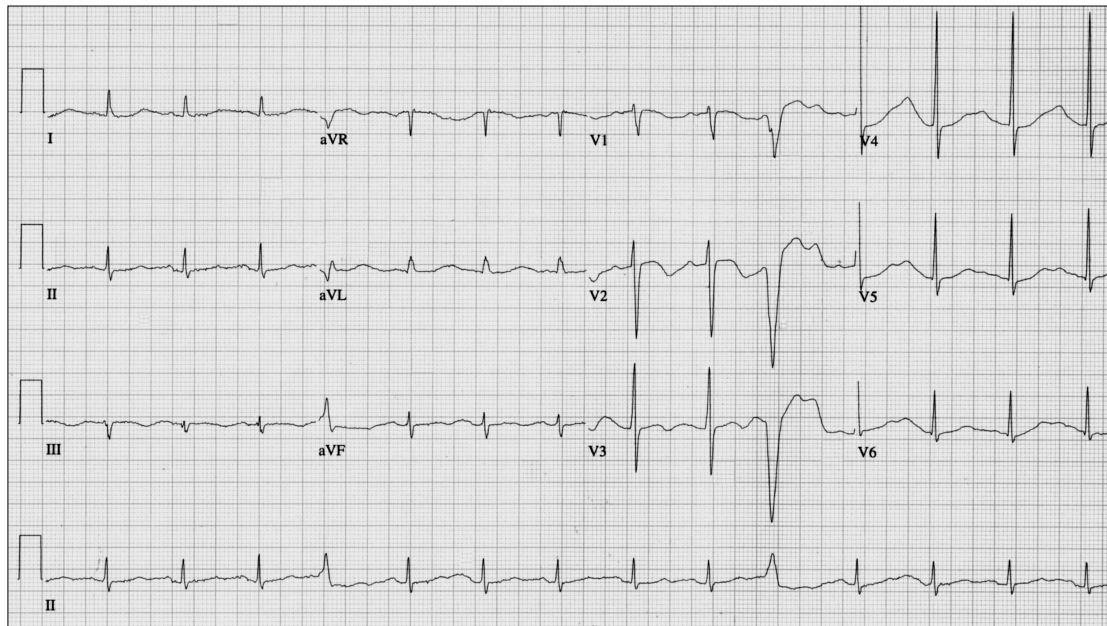


Fig. 3. EKG taken after termination of torsades de pointes shows long QT interval and T-U alternans.

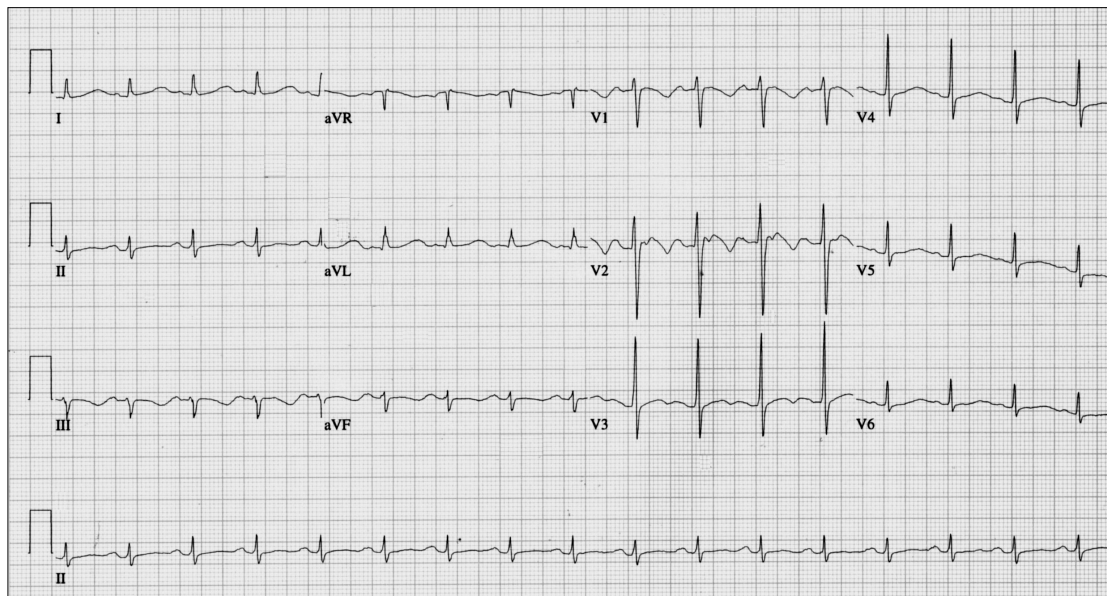


Fig. 4. EKG taken 32 days after attack of torsades de pointes.

T - U alternans (Fig. 3) tor - 가 reentry
sades de pointes . 32 circuit가 가
QT 420 msec 가
(Fig. 4).⁹⁻¹¹⁾ Torsades de pointes
: 2 가 (pacing)
, 가 programmed electrical stimulation
, 20
1 spontaneous termination
1 가 가
가 (defibrillation)
가 early afterdepo -
incessant ventricular tachycardia class Ia
. 5)
2 terfenadine(Seld -
ane®, Marion Merrell Dow) astemizole(Hismanal®,
Janssen)
, Craft 1986
astemizole QT
2
QT , , torsades
de pointes
. 12-14) piprinhydrinate(Plo -
kon) torsades de pointes
가 1
torsades de pointes
. 15) torsades de pointes
Torsades de pointes 가 QT
U (po - 가 가 가
lymorphic ventricular tachycardia)
가 idi -
. 5)
1964 Selzer⁶⁾ quinidine
long QT
(Class Ia, III),
, ,
QT 가 torsades de pointes
. 7)8)
Torsades de Pointes
Purkinje
early afterdepolarization triggered activity

long QT
 QT terfenadine
 가
 MgSO₄ 2~4 g
¹⁸⁾
 Macrolide imidazole QTc 500 msec
 torsades de 3~20 mg ²⁰⁾
 pointes 가 가 ,
 cytochrome P450
 가
¹⁹⁾ terfenadine astemizole
 torsades de pointes 8
 torsades de pointes 1
²⁾
 . 2 QT
 1
 가
 early afterdepolarization 가
 Hydroxyzine piperazine 1 Vmax 가
 , , ^{21 - 23)}
 isoproterenol
 가
 가 가
 가
 (action potential duration)
 25 mg 1 3~4 isoproterenol
 ,
 hydroxyzine
 가
 , 2
 가
 QTc 443 msec
 ,
 MgSO₄ 2 g
 가 , hydroxy - 20 mg
 zine torsades de pointes isoproterenol 5 µg
 , 가 가
 QT 110 가
 terfenadine astemizole 1
 torsades de pointes
 . QT
 가 , QT U 가
 가 torsades de pointes
 , Romano - Ward ,
 long QT QT 가 ,

요 약

Torsades de pointes QT 가
가
2 terfenadine
astemizole
torsades de pointes
가
1 가
exanthem 1
hydroxyzine
torsades de pointes
isoproterenol 1

중심 단어 : Torsades de pointes

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